

**THOMSON**  
  
**DELPHION**

**RESEARCH**  
[My Account](#) | [Products](#)

**PRODUCTS**  
[Search: Quick/Number](#) [Boolean](#) [Advanced](#)

**INSIDE DELPHION**

## The Delphion Integrated View

Get Now: ☒ PDF | [More choices...](#)

Tools: Add to Work File: [Create new Wor](#)

View: [INPADOC](#) | Jump to: [Top](#)  Go to: [Derwent...](#)

 [Ema](#)

**Title:** **JP9330707A2: ROLLER FOR CLOSELY CONTACTING LITHIUM FOIL MANUFACTURE**

**Country:** JP Japan

**Kind:** A

**Inventor:** TONOHARA KOUJI;

**Assignee:** FUJI PHOTO FILM CO LTD  
[News, Profiles, Stocks and More about this company](#)

**Published / Filed:** 1997-12-22 / 1996-06-10

**Application Number:** JP1996000147330

**IPC Code:** H01M 4/08; H01M 4/04;

**Priority Number:** 1996-06-10 JP1996000147330

**Abstract:**

**PROBLEM TO BE SOLVED:** To impart a sufficient close contact strength to a lithium foil with a small pressure contacting force by knurling the outer circumferential surface of a resin-made roller for closely adhering the lithium foil to an electrode plate.

**SOLUTION:** This roller 10 has a metallic shaft core 14 having a knurling 12 on the outer circumferential surface and a cylindrical body 16 made of a resin such as super-high density polyethylene or polypropylene to which the shaft core 14 is press fitted. The outer circumferential surface of the cylindrical body 16 has a knurling 18, and a plurality of hole part 19 are also formed thereon according to requirement. The roller 10 is arranged on one surface 26a side of a lengthy electrode plate 26 continuously carried in an arrowed direction A in order to intermittently apply an active material to a hoop-like copper foil support body at fixed intervals and stick a lithium foil 28 which is a thin metal foil adhesive to metal to the surface of 26a at a prescribed pitch. A nip roller 40 is arranged on the other surface 26b of the electrode plate 26 in such a manner as to approach to and retreat from the surface 26b.

**COPYRIGHT:** (C)1997,JPO

**Family:** None

**Other Abstract Info:** CHEMABS 128(07)077594R CAN128(07)077594R DERABS C98-107103 DERC98-107103





[Nominate](#)

[this for the Gallery...](#)

© 1997-2003 Thomson Delphion    [Research Subscriptions](#) | [Privacy Policy](#) | [Terms & Conditions](#) | [Site Map](#) | [Contact](#)



(19)

(11) Publication number:

**09**

Generated Document.

**PATENT ABSTRACTS OF JAPAN**(21) Application number: **08147330**(51) Intl. Cl.: **H01M 4/08 H01M 4/04**(22) Application date: **10.06.96**

(30) Priority:

(43) Date of application  
publication: **22.12.97**(84) Designated contracting  
states:(71) Applicant: **FUJI PHOTO FILM CO**(72) Inventor: **TONOHARA KOUJI**

(74) Representative:

**(54) ROLLER FOR  
CLOSELY CONTACTING  
LITHIUM FOIL AND ITS  
MANUFACTURE**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To impart a sufficient close contact strength to a lithium foil with a small pressure contacting force by knurling the outer circumferential surface of a resin-made roller for closely adhering the lithium foil to an electrode plate.

**SOLUTION:** This roller 10 has a metallic shaft core 14 having a knurling 12 on the outer circumferential surface and a cylindrical body 16 made of a resin such as super-high density polyethylene or polypropylene to which the shaft core 14 is press fitted. The outer circumferential surface of the cylindrical body 16 has a knurling 18, and a plurality of hole part 19 are also formed thereon according to requirement. The roller 10 is arranged on one surface 26a side of a lengthy

electrode plate 26 continuously carried in an arrowed direction A in order to intermittently apply an active material to a hoop-like copper foil support body at fixed intervals and stick a lithium foil 28 which is a thin metal foil adhesive to metal to the surface of 26a at a prescribed pitch. A nip roller 40 is arranged on the other surface 26b of the electrode plate 26 in such a manner as to approach to and retreat from the surface 26b.

COPYRIGHT: (C)1997,JPO

